The River Mile Framework 6-8 Sample Connections to Washington State Revised Science Standards



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Grades	EALR 1	EALR 2	EALR 3
	Systems	Inquiry	Application
6-8	Inputs, Outputs,	Questioning & Investigation	Science, Technology, &
	Boundaries & Flows		Problem Solving
	Identify TRM subsystems. Draw	Generate TRM questions &	Investigate professions &
6	system boundaries to fit your	design a field investigation,	careers related to TRM (e.g.,
	study	collect & analyze data	NPS Ranger, WDFWL biologist,
			Hydropower engineer)
7	Find evidence of output & input flows at TRM	Identify and interpret TRM data	Formulate a TRM problem &
′	Hows at TRIVI	for patterns and variations	the criteria for a successful solution.
	Identify open and closed systems	Do a controlled experiment &	Research world-wide & cultural
8	at TRM	model TRM systems	solutions to a TRM problem
Grades		EALR 4 - Physical Science	
6-8	Balance & Unbalanced Forces	Atoms & Molecules	Interaction of Energy & Matter
	Collect data. Does water exert	Study the properties of water.	Find evidence of energy
6	balanced or unbalanced force	Identify mixtures & solutions at	movement by conduction,
	shoreline landforms?	TRM	convection & radiation
7	Measure the speed of TRM	Water Quality sampling at TRM.	Find TRM evidence of energy
7	species. How does speed relate to survival of a species?	How do pH & temperature impact fish health &	transfer by photosynthesis, (e.g., growth study fall to spring
	to survivar or a species:	reproduction?	evergreen / deciduous)
	Collect data on motor boat wakes.	Water Quality sampling at TRM.	Explain the chemical transfer of
8	What is the impact of this force on	How do dams change dissolved	energy in TRM food web
	TRM shoreline?	gas levels O ₂ & Ni?	
Grades		R 4 - Earth and Space Scie	
6-8	The Solar System	Cycles in Earth Systems	Evidence of Change
	Study the impact of gravity on	Investigate & explain the rock	Map and label TRM landforms
6	landforms Investigate how plant & animal	cycle evidence at TRM Model the interactions of solids,	Explain how plant & animal life
7	behavior changes with day/night	liquids & gasses at TRM and	at TRM depend on or adapt to
'	cycle	their impact on plant & animal	landforms. How may it have
		survival	changed over geologic time?
	Investigate the lunar cycle impact	Water is a solvent. How does	Make a model to show how
8	on plants & animals	this property impact water	TRM changes if global warming
Crades		quality?	predictions are correct
Grades	-	EALR 4 - Life Science	
6-8	From Cells to Organisms	Flow of Energy through Ecosystems	Inheritance, Variation & Adaptation
	Identify & classify TRM plant &	Identify & map TRM	Predict which species are most
6	animal species	ecosystems boundaries	likely to survive if temperatures
			change.
	Identify & classify TRM algae,	Predict how non-native species	Identify variations in non-native
7	fish, macroinvertibrates &	change the flow of energy	species that account for rise in
	microscopic water organisms	through TRM food-web.	population (e.g., large mouth
	Which organisms of TDM are	Ctudy boys in proceed a state of	bass walleye)
8	Which organisms at TRM are most & least harmed by changes	Study how increased nutrient loads (nitrates or phosphates)	Predict TRM species that are most likely to adapt & survive
0	in water quality?	in the water impact TRM	changes in the quantity of
	vator quality:	ecosystem balance?	water.
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Note: This chart is intended as a sample only. Faculties are encouraged to choose school-specific content & develop an articulated grade level focus for TRM site visits.